

coil unit for static magnetic field generation with respect to the space, characterized in that, the main coil unit for static magnetic field generation and the plurality of coil units for irregular magnetic field correction in each of the static magnetic field generation sources are arranged in such a manner that within an angle range defined by a first line segment on a plane containing the center axis and extending in a direction perpendicular to the center axis from a center point on the center axis having substantially the same distance from both first and second static magnetic field generation sources and a second line segment extending from the center point toward the coil unit for irregular magnetic field correction located most inside and most close with respect to the space within the plane, when the geometric centers of the cross sections of the main coil unit for static magnetic field generation and the plurality of unit coils for irregular magnetic field correction are projected on any straight line while locating the first line segment therebetween, the current flow directions of the main coil unit for static magnetic field generation and the plurality of unit coils for irregular magnetic field correction at the respective corresponding projection points align alternatively in positive and negative direction on the straight line as well as the direction of DC current flow in the shielding coil unit is determined to be opposite to the direction of the DC current flow in the main coil unit for static magnetic field generation.--

REMARKS

Claims 1-65 are pending in this application.

If a petition for an extension of time is required to make this response timely, this paper should be considered to be such a petition, and the Commissioner is authorized to charge the requisite fees to our Deposit Account No. 03-3125.

Entry of this preliminary amendment and allowance of this application are respectfully requested.

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